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Color tuned holographic optical elements and methods of making and using the elements

Description of Technology: This invention relates to holographic multicolor optical elements for use as multicolor filters in liquid crystal displays and methods of making the elements.

Patent Listing:

1. **US Patent No. 5,526,145**, Issued June 11, 1996, "Color tuned holographic optical elements and methods of making and using the elements"

http://patft.uspto.gov/netacgi/nph-Parser?Sect2=PTO1&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&d=PALL&RefSrch=yes&Query=PN%2F5526145

Market Potential: Multicolor liquid crystal display (LCD) assemblies have many uses including displays in vehicle dashboards, watches, calculators, televisions, computers, video camera view finders, etc. Conventional multicolor LCD assemblies are adapted to display images by transmitting light of different colors, typically red, green or blue, through selected miniature areas of a surface called pixels. Illustrative multicolor LCD assemblies are disclosed in U.S. Pat. Nos. 4,834,508, 4,878,741, 4,929,060, 4,966,441, 5,089,905, 5,113,274, 5,130,826, 5,150,236 and 5,245,449.

Benefits:

- **Higher quality of colors, shades and resolution of the display.**
- **Faster transmission**

Applications:

- **Multicolor filters in liquid crystal displays**

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